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L1 82798 S ENDONUCLEASE?  
L2 193 S L1 AND I-SCEI  
L3 16 S L2 AND TRANSGENIC  
L4 9 DUP REM L3 (7 DUPLICATES REMOVED)  
L5 9 SORT L4 PY  
L6 159622 S TRANSGENIC  
L7 20 S L6 AND I-SCEI  
L8 10 DUP REM L7 (10 DUPLICATES REMOVED)  
L9 10 SORT L8 PY

=> d ti so au ab pi 19 5,8

L9 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Nucleotide sequence encoding yeast enzyme **I-SceI** and  
its use in inducing homologous recombination in eukaryotic cells and  
protein production in **transgenic** animals

SO PCT Int. Appl., 122 pp.

CODEN: PIXXD2

IN Choulika, Andre; Perrin, Arnaud; Dujon, Bernard; Nicolas, Jean-Francois  
AB Synthetic DNA encoding the enzyme **I-SceI** is provided.  
The DNA sequence can be incorporated in cloning and expression vectors,  
transformed cell lines and **transgenic** animals. The vectors are  
useful in gene mapping and site-directed insertion of genes. A synthetic  
gene encoding *Saccharomyces cerevisiae* **I-SceI**  
restriction endonuclease was expressed in *Escherichia coli* and yeast. The  
enzyme was used in genetic mapping of a yeast chromosome, of YAC's, and of  
cosmids. **I-SceI** efficiently induced double-stranded  
breaks in a chromosomal target in mammalian cells and the breaks were  
repaired using a donor mol. that shares homol. with the regions flanking  
the break.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614408	A2	19960517	WO 1995-EP4351	19951106
WO 9614408	A3	19960829		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5792632	A	19980811	US 1994-336241	19941107
EP 791058	A1	19970827	EP 1995-938418	19951106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10508478	T2	19980825	JP 1995-515058	19951106

L9 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Cloning and expression of gene for restriction endonuclease **I-SceI** of *Saccharomyces cerevisiae* and use of **I-SceI**

SO U.S., 79 pp. Cont.-in-part of U. S. 5,474,896.

CODEN: USXXAM

IN Dujon, Bernard; Choulika, Andre; Perrin, Arnaud; Nicolas, Jean-francois

AB A mitochondrial gene encoding restriction endonuclease **I-SceI** of *Saccharomyces cerevisiae* and a synthetic universal code  
encoding **I-SceI** for the expression in *Escherichia coli*  
and yeast are provided. Applications of **I-SceI** for  
genetically mapping yeast chromosomes by the nested chromosomal  
fragmentation strategy, inducing double stranded DNA break, and in vivo  
site-directed insertion of genes and homologous recombination in  
eukaryotes are also described. It may also be used for prep.  
**transgenic** animal models of human diseases and genetic disorders.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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WO 9614408 A3 19960829

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

CA 2203569 AA 19960517 CA 1995-2203569 19951106

EP 791058 A1 19970827 EP 1995-938418 19951106

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 10508478 T2 19980825 JP 1995-515058 19951106

US 5948678 A 19990907 US 1998-119024 19980720

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US 5474896 A 19951212 US 1992-971160 19921105  
US 5866361 A 19990202 US 1995-465273 19950605  
WO 9614408 A2 19960517 WO 1995-EP4351 19951106  
WO 9614408 A3 19960829

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
CA 2203569 AA 19960517 CA 1995-2203569 19951106  
EP 791058 A1 19970827 EP 1995-938418 19951106  
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JP 10508478 T2 19980825 JP 1995-515058 19951106  
US 5948678 A 19990907 US 1998-119024 19980720